

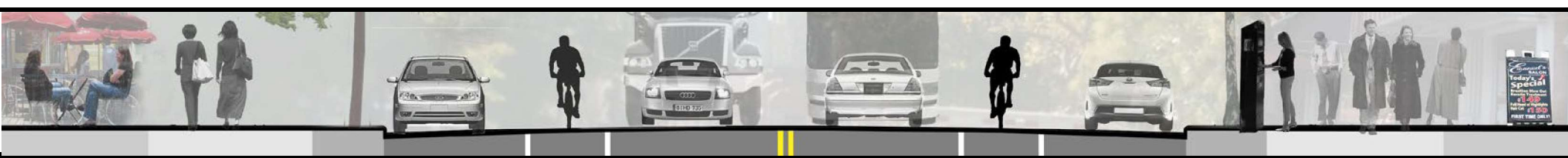
Transportation Alternatives (TA) Set-Aside Design Assistance

NV5 Related Services

NV5 is a multidiscipline firm of professionals dedicated to designs that enhance quality of life. We take pride in helping our clients develop and deliver cost-effective, sustainable and resilient projects that improve lives in their communities. Our northeast infrastructure team (*formerly The RBA Group*) is headquartered in Parsippany, NJ, with multiple offices in the northeast, including Philadelphia, PA and New York, NY.

NV5's multidiscipline structure is significant in shaping communities through the services we provide. Core specialties include bicycle/pedestrian planning and design, recreational planning and design, landscape architecture and streetscape design, highway and traffic design, transportation planning, structural design, site design, utility services, environmental permitting, hydraulics / hydrology and construction management. We have provided design services for various counties and municipalities throughout New Jersey, and other major transportation agencies including NJDOT, NJTA, NJTPA, DRJTBC, SJTPO, DVRPC, NJ TRANSIT, PANY&NJ, etc.

NV5's seasoned professionals are experienced in a broad range of transportation enhancement and transportation alternative settings. We are nationally and locally recognized, and are providing Transportation Alternative and Safe Routes to School (SRTS) Design Assistance throughout NJ, providing communities thoughtful responsive design solutions while successfully navigating Local Public Agencies (LPA's) through the NJDOT and FHWA's federal funding process.



NV5 is a full service multidiscipline firm. Below are some specific TA services:

Complete Streets

- Context Sensitive Design/Equitable Solutions
- Policy Plans
- Implementation & Training
- Multimodal Design/Connections
- Transit Access
- Smart Streets (Technology/Infrastructure)

Pedestrian Safety

- ADA Compatible (Sidewalks, Intersection Devices)/Bump Outs/Signal Upgrades
- Crosswalks (High Visibility, Colored/Textured, In-pavement Lighting)
- Safe Routes to School
- Traffic Calming/Road Diets/Speed Tables
- Signals (HAWK, Flashing Beacons, etc.)
- Lighting
- Pedestrian Bridges/Tunnels

Roadway/Traffic Improvements

- Pavement and Drainage Improvements
- Widening/Reconstruction
- Intersection/Signal Design/Traffic Regulation/Roundabouts
- MUTCD Signing / Striping
- Roadside Safety
- Utility Design
- Survey/Basemapping

Bicycle Accommodation (On Road /Off Road)

- Pavement Markings/Sharrows (shared lane markings)
- Dedicated Bike Lanes
- Parking /Bike Racks
- Signing
- Shared Use Paths
- Trails & Greenways, Rail-Trails

Streetscape Design

- Landscape (Green Infrastructure)
- Gateways/Decorative Treatments
- Pedestrian Plazas
- Decorative Street Furniture, Parklets
- Art / Cultural Elements
- Wayfinding Signage
- Decorative Lighting

Environmental

- Public /Agency Outreach
- Assessment/NEPA Documentation/Technical Studies
- Water Resources, Hydrology & Hydraulics, Flood Plain Restoration/Management
- Green Stormwater Infrastructure Design
- Ecology, Permitting
- Cultural Resources including Archeology
- Hazardous Materials

Complete Streets (CS)

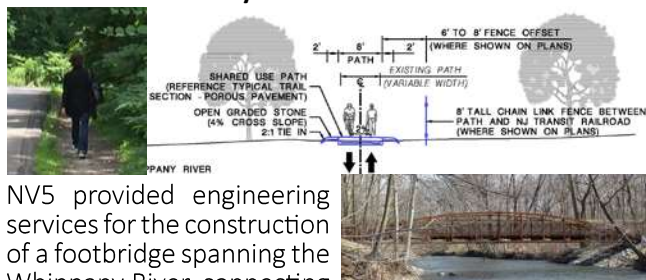
Client: New Jersey Department of Transportation

NV5 prepared CS program support documents for NJDOT. NV5 also helped NJDOT refine the Capital Project Delivery Process and made recommendations to the associated Activity Descriptions and Guidelines (Concept and Design phases) to implement the CS policy. NV5 instructs NJDOT, agency, county and municipal staff on implementing CS.



Patriots' Path on Great Morristown Greenway

Client: Morris County Park Commission



NV5 provided engineering services for the construction of a footbridge spanning the Whippany River, connecting portions of bicycle/pedestrian trails through Morris County parklands. NV5 is designing, as part of NJDOT Local Aid Design Assistance and federal TA grant, a Shared Use Path along a 0.9 mile section in the Town of Morristown that extends from MLK Blvd. to Rt. 202 involving trail design within NJ Transit ROW and historic districts and also includes: pedestrian bridge replacement, porous pavement, Cultural Resources, permits, outreach, etc.

Bridge Street Stockton Streetscape

Client: New Jersey Department of Transportation, Borough of Stockton



NV5 provided landscape architecture and streetscape design services for this \$2 million project, which is the connector roadway between the Route 29 Scenic Byway and Delaware River. Because Bridge Street crosses the D&R State Park and Canal, all design elements required approval from the NJ State Historic Preservation Office (SHPO). Streetscape improvements included: new blue stone curb and sidewalks, period lighting, street trees, ornamental plantings, bicycle trail crossing design and historic signage.

Transportation Alternatives Program Design Assistance (TAP)



Multiple Projects For LPAs through NJDOT Local Aid and Economic Development using Federal Aid Highway Program Funds For 2016 and 2018 Grant Recipients

NV5 has been selected by LPAs throughout NJ to provide Design Assistance Services for Preliminary Design, Final Design and Construction Support for the Federally Funded TAP project grants listed below. Services include Multi-Use Trail design, streetscape and landscape architecture, signing and striping, intersection improvements, bicycle compatibility improvements, pedestrian safety, pedestrian bridges, ADA curb ramps, driveway apron improvements, intersection and signal design, pedestrian scale lighting, cultural resources, technical environmental studies, environmental permitting, public outreach, preparation of contract plans, specifications and cost estimates (PS&E) as well as construction support:

- Morris County Park Commission: Patriots' Path on Great Morristown Greenway (approx. 0.9-mile trail)
- City of Passaic: Market Streetscape Enhancement Project
- Toms River Township: Ortleigh Beach Streetscape and Gateway Treatment Project along Rt. 35 and gateways to Ortleigh Beach
- Town of Morristown: MLK Promenade Transit Connection Streetscape, pedestrian safety improvements
- Raritan Borough: Pedestrian Improvements from the NJ Transit Rail Station to the Riverfront
- Pennington Borough: Downtown Streetscape Improvements within Historic District
- Metuchen Borough: Grove Avenue Bike Lanes
- Frenchtown Borough: Downtown Streetscape



Safe Routes to School (SRTS) Design Assistance

Multiple Projects For LPAs through NJDOT Local Aid and Economic Development using Federal Aid Highway Program Funds For 2016 Grant Recipients NV5 has been selected by LPAs throughout NJ to provide Assistance Services for Preliminary Design, Final Design and Construction Support for the Federally Funded SRTS project grants listed below. Services to include: pedestrian safety, sidewalk and ADA curb ramps, signing and striping, intersection improvements, bicycle compatibility improvements, utility coordination including RR crossings, environmental permitting, public outreach, and preparation of contract plans, specifications and cost estimates (PS&E) as well as construction support:

- Pemberton Township: SRTS improvements for roadways near Busansky/Emmons Schools
- Somerville Borough: SRTS improvements along Veteran's Memorial Drive East
- New Providence Borough: SRTS improvements for roadways near Allen W. Roberts School and Salt Brook Elementary School
- Highland Park Borough: Phase 1 SRTS improvements for roadways near Irving School and Bartle School
- Highland Park SRTS: Phase 2 Intersection Safety Improvements at Fifty (50) Intersections
- Village of Ridgewood: SRTS improvement for roadways near Benjamin Franklin Middle School
- Princeton SRTS: Rosedale Road (CR 604) & General Johnson Drive Intersection and Pathway
- City of Asbury Park SRTS: Traffic Calming, Bike and Pedestrian Upgrades, including Roundabouts
- City of Orange SRTS: Pedestrian Improvements for Roads near Park Avenue school
- City of Newark: SRTS Improvements at Thirteen (13) Schools
- Frenchtown Borough SRTS: Pedestrian Improvements for Harrison Street and Second Street



Transportation Alternatives (TA) Set-Aside Design Assistance—Related Experience

NV5

Delaware River Trail - Philadelphia

Client: Delaware River Waterfront Corporation



NV5 prepared a Master Plan and Preliminary Design Report for a five-mile section of the proposed Delaware River Trail between Pier 72 South/Mifflin Street and Lehigh Avenue in Central Philadelphia, PA. This effort led to preparation of Final

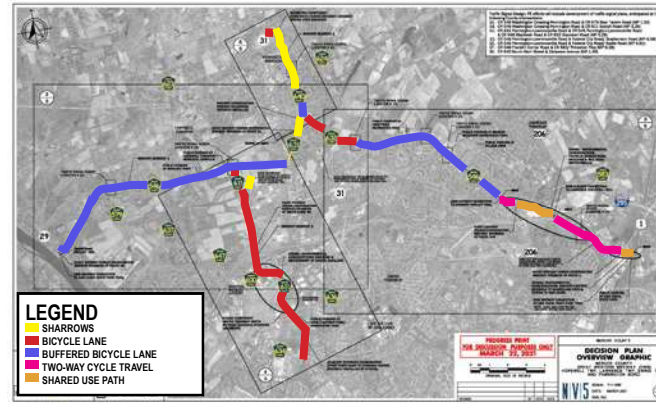
Design drawings for the construction of the first phase of the trail, (the Penn Street Trail section). The solution along this part of the route called for design of a clever 'urban' side-path alongside Delaware Avenue and Penn Street. The project also developed underutilized roadway space into a new pedestrian plaza and featured sustainable storm-water management (rain gardens) and solar powered trail lighting, green infrastructure, and smart technologies.



Route 35 Reconstruction MP 4.0-9.0 (Superstorm Sandy Emergency Contract)

Client: New Jersey Department of Transportation

NV5 provided final design and construction support services for a 5-mile section of Route 35, which involved pavement replacement, new corridor-wide drainage system (over 30 outfalls), replacement/ upgrades to 19 signalized intersections, significant sidewalk improvements, enhanced crosswalks, bike lanes, parking improvements, and over 725 ADA-compliant curb ramp installations, which were constructed in accordance with NJDOT American Disabilities Act policies.



Mercer Co. Great Western Bikeway (GWB)

Client: Mercer County

NV5 is providing design services to establish 17.5 miles of bikeable shoulders, bike lanes, buffered bike lanes, two-way cycle tracks, and multi-use paths on Mercer Co. roadways to serve as the spine for the northwestern part of the County's bicycle network with connections to parks, trails, residential and employment areas. Project Funding involves \$2.4M federal Regional Transportation Alternatives Program (RTAP) grant through NJDOT for the design and construction.



Cross Camden County Trail

Client: Camden County

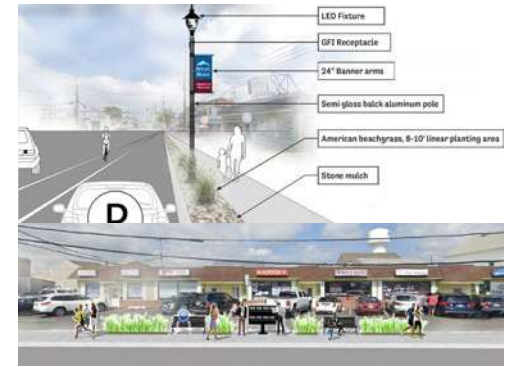
NV5 is designing and providing NEPA environmental documents and contract plans for over 20 miles of shared use path in eight separate project segments across Camden County. The project includes sidepaths, rail-with-trail, and riverfront greenway, with a focus on connecting urban and suburban residential areas to employment centers, open spaces, and parks. Improvements include multiple pedestrian bridges and over one mile of boardwalk section. To date, Camden County has secured over \$5.3 million in federal funds through CMAQ and TASA funding. Estimated Construction Cost (all eight segments): \$55-60M



Boyd McGuinness Park

Client: Jersey City, NJ

NV5 provided services from concepts through design and construction for an urban park including child play area, splash pad, natural stone amphitheater, rain garden, site lighting and furniture as well as historic monument.



Ortley Beach Streetscape and Gateway Improvements

Client: Toms River Township (via NJDOT Local Aid)

NV5 is providing design services for this streetscape improvement project consisting of decorative pedestrian street lights, benches, bike racks, trash & recycling receptacles, news racks and gateway signage. Proposed plantings will consist of linear planting areas adjacent to the proposed street lights. Additional planting areas include street corners and in the areas of the benches and gateway signage.

Transportation Alternatives (TA) Set-Aside Design Assistance—Related Experience

NV5



**Route 9W
Bicycle and
Pedestrian
Improvements**
9 miles Bergen
County
Client: NJDOT



**Route 71
Pedestrian
Tunnel
at Monmouth
University**
Client: NJDOT

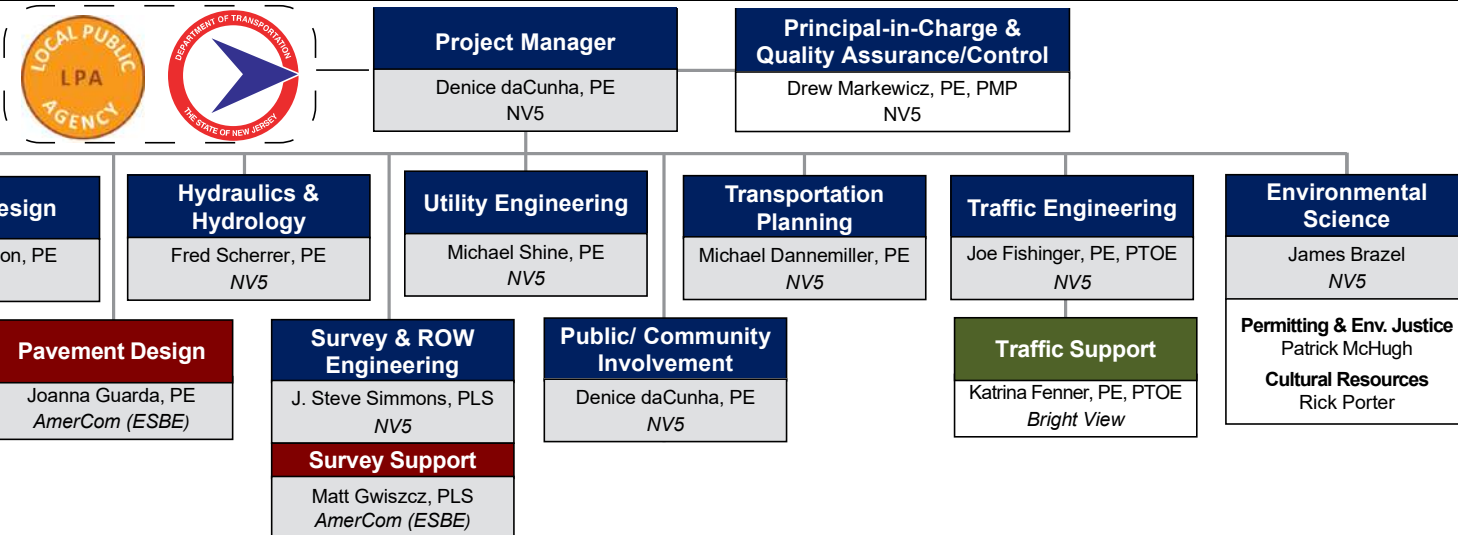


**Route 47
Bicycle and
Pedestrian
Improvements**
City of Millville
Client: NJDOT



**Sunset Blvd. - Streetscape, Bicycle, Pedestrian,
Roadway & Drainage Improvements**
Client: Cape May County

NV5 PROFESSIONAL STAFF Project Organization



Denise daCunha, PE—Project Manager

Direct: 973.946.5624

Denise is a Professional Engineer with over 34 years of experience at NV5 in the design and management of numerous highway, bridge and traffic engineering assignments. Her experience includes managing NJDOT projects throughout all design phases: conceptual, preliminary, final design and construction support. Projects have included Transportation Alternatives, SRTS, ADA compliance, bicycle and pedestrian improvements, signal upgrades, signing/ striping, community outreach, etc. She has completed Rutgers CAIT Federal-Aid Responsible Charge and Federal Grant Management training. Several of Denise's projects have been recognized with awards from the American Planning Association, Engineers Council of NJ, NJ Concrete Association, Federal Highway Administration, and NJDOT Value Engineering.



Mike Dannemiller, PE—Transportation Planning/Community Involvement

Mike has been planning and designing bicycle and pedestrian projects for the last 30 years. He has developed plans and designs for enhancing bicycle and pedestrian accommodation from New England to Florida to Oregon. He has also developed and presented training sessions on Safe Routes to School and senior mobility, Complete Streets, Traffic Calming, bicycle and pedestrian planning and design. Mike is trained by the Federal Highway Administration, the Association of Pedestrian and Bicycle Professionals and the National Complete Streets Coalition for facilitating Safe Routes to School and Complete Streets workshops; and serves as an Advisor to the New Jersey East Coast Greenway Committee and the September 11th National Memorial Trail Alliance.

SUMMARY STATEMENT

NV5 has been designing multi-modal improvements that enhance use and safety, and promote a sense of place unique to your community's vision and the needs of all users. Particularly relevant is our over 25 years of context-sensitive design projects involving pedestrian, bicycle, traffic calming, streetscape, urban design, and trail designs. Our recent development of Statewide Pedestrian, Bicycle, School Zone and Safety Guides, Local and National Complete Streets-related Training qualifications, and our experience with transportation and land use projects in NJ and throughout the northeast, demonstrate our unique qualifications. Our Team's Local Public Agency (LPA) experience on numerous Design Assistance projects and knowledge of Federal Aid requirements will assist LPA's in the successful advancement of the design and construction phases.